

TESLA DEFYING THE LIGHTNING.

But, Unlike Ajax, He Is Able to Send it to Any Distant Point.

SEND IT UP IN A BALLOON.

Another Balloon, Thousands of Miles Away, Will Catch the Electricity.

DISTANCE IS ANNIHILATED.

Thus Could Niagara Furnish Power for Running Trolley Cars in Manila and for Lighting Cape Town.

Since the day when Newton discovered in a lump on his head the solution of the mystery of gravitation no student of science who valued his reputation has ever dared make claim to so startling a discovery as that which Nikola Tesla now announces he is about to reveal to the world. Tesla is a cautious student in the field of electrical experiment. He is conservative. His standing as a scientist is high. And in the knowledge of these facts the claim that he makes is fully entitled to careful consideration.

Without wires or other artificial means of connection he asserts that he has perfected an apparatus by means of which an electrical current strong enough not merely to record telegraphic signals but powerful enough to drive the machinery of factories and railroad trains can be transmitted from any part of the globe to any other part. And his transmitter is the ether, rare air, fire and more miles above the earth.

You have, no doubt, seen the rays of the sun reflected by a heliograph mirror from a mountain top for a distance of many miles across the country. In a somewhat similar way will the waves of electricity flash from height to height without a conductor.

Mr. Tesla has applied for a patent for his apparatus, and in his application he outlines the general scheme of his invention. All that he says is perfectly clear and logical to the trained electrician, although it is too full of "necessities," "high-tension secondaries" and "differences of potential" for the lay mind to grasp; yet the few connecting links—the ether, rare air, fire and more miles above the earth—of the scheme are still a secret. And this secret, Mr. Tesla says, will be revealed as soon as he is enabled to repeat his experiment upon a sufficiently large scale to demonstrate its success.

Will Tell All the World About It. For him, he says, the experimental stage has passed. He has found what he is after and soon all the world will know how it is done.

The first step of his work lay in perfecting an apparatus capable of generating electrical pressure far in excess of any heretofore used. This was a work of many years for Mr. Tesla, and was finally successfully accomplished. It was accomplished by a combination of the mysterious oscillator and an induction coil, and when it is all set up and in working order it discharges nearly two and a half million volts of electricity.

You may see herewith a picture of this wonderful apparatus. This photograph was taken at night in a room illuminated only by the flash of the electric current. It is rather dangerous to experiment with such high voltage and very few people are curious to see it at close range.

One of the problems that Mr. Tesla has to solve is how to get this powerful generator of electricity to a sufficiently high altitude. He is figuring at present upon the feasibility of big balloons, his idea being to construct a sufficient number to lift this apparatus to a height over five miles, and there to hold them captive by means of cables.

From this height the generator, fed by wires from the earth below, hurls its multiplied current into space. The blanket of air between the balloon and the earth prevents the current from leaking downward, and, besides, the rarefied air is a better

PRETTY SPELLBINDER IN RUSTING SKIRTS.



Miss Arminta Schmalz, the Woman Spellbinder.

She takes the stump for Van Wyck because she is fully convinced that it is her duty to aid in the election of a sterling Democrat.

conductor. Now, if you can imagine this tremendous current flashing hither, thither, everywhere through space, in search of an outlet, and finding it in a metallic conductor running from the earth to another balloon, also floating high above the earth, you will grasp the salient feature of Mr. Tesla's scheme. From this second balloon the current runs down to the earth to electric motors or any other means of transmission desired.

The possibilities of the scheme are so stupendous that the mind at first rebels against accepting it as other than a fairy dream, yet, upon careful analysis, there is nothing that can be pointed out as impossible in the idea. And consider for a moment how it would revolutionize the world's industry.

Niagara to Be Harnessed. With these simple implements the tremendous power which goes to waste every second over the brink of Niagara Falls could be utilized to do nearly half the electrical work of the State of New York. By means of another of Mr. Tesla's schemes a tiny portion of the power of Niagara is at present conducted to the city of Buffalo, where it is used in lighting and mechanical purposes. The great bulk of the power, however, is wasted for want of use.

With the new scheme the powerful current which could be gathered from the Falls would be conveyed high up in the air, to where Tesla's generator hangs suspended from a balloon. That it would be here multiplied and increased in intensity many thousand fold is a fact which Mr. Tesla demonstrates in his laboratory every day.

Then this unchained lightning, flashing through the void, would be caught up by aerostatic vessels for hundreds and hundreds of miles around, although, of course, the greater the number of receiving coils the lower the strength of the current which each will conduct to the earth.

And upon the earth this current, drawn from the rushing Falls will run, let us say, the trolley cars in Brooklyn and the laundry rollers in Troy and the saw mills in the mountains, and will light up Buffalo, and anywhere the telegraph service for all the State.



Manages Her Own Factory; Is Her Own Lawyer.

Miss Hattie Baumister is twenty-five years old. She owns a piano factory and manages it herself. In the course of her work she discharged Philip Leum, a varnisher. He refused to give up the keys to the factory, so she had him arrested on a charge of disorderly conduct. The case came up in police court yesterday and Miss Baumister acted as her own lawyer. She secured Leum's conviction.

BRIDGE OPEN TO KING'S CO. "L" CARS.

Brooklyn "L" Graciously Leases One-Third to Its Rival.

CITY OUT IN THE COLD.

Uhlmann's Company Will Reap All the Profits of the Arrangement.

\$83.33 A DAY FOR 833 CARS.

King's County Road to Share the Expense of the Bridge Cars, but to Have No Part of the Profit or Loss.

An agreement was signed in Commissioner Shea's office yesterday under which the Kings County Elevated Railway Company will be permitted to convey its passengers across the Brooklyn Bridge. The proceedings further demonstrated in what extent the old bridge trustees had given the Brooklyn Elevated, or Uhlmann, system a monopoly over the Bridge railway. James H. Frothingham signed for the Kings County and Frederick Uhlmann for the Brooklyn Elevated, each as receiver.

The Kings County managers have been insistent that the old trustees had no legal right to shut them out, and the preamble to the present agreement recites their contentions and their differences with the city officials and the Brooklyn company. The preamble paragraphs also state that any understanding between the city and the Kings County road is not affected by the present arrangement; neither does the Brooklyn "L" concede any of its rights under its contract with the city dated June 23, 1898. Moreover, either road may terminate this temporary affair by giving fifteen days' notice.

The terms of the agreement indicate that the Kings County is to be merely a subtenant, as it were, of the other company. Commissioner Shea had no authority except to act as a sort of umpire, because the \$15,000,000 bridge was practically turned over to the Brooklyn "L," and the trolley lines before he took office.

The Kings County is to operate trains and convey passengers in the same manner as the Brooklyn "L," all passengers to be transferred to the local bridge trains during rush hours. The proportion is one Kings County to two Brooklyn "L" trains. If the Kings County desires to use the bridge for more than the two trains, it must operate through trains to Manhattan or use the local bridge railway service.

The Kings County is required to pay to the Brooklyn "L" \$83.33 a day for each third of the minimum toll exacted by the city from the Brooklyn company.

All questions touching the daily expense of operating the cars, including power and maintenance, are to be left to George B. Condit for the Brooklyn "L," and to J. D. Condit for the Kings County. Every Monday the latter company is to settle up for the number of cars and the number of passengers using its road who may be carried over the bridge in the local trains. It is provided that "from the total expense of operating the bridge of all the railroads, shall be deducted the total of the amounts chargeable to the Kings County and the balance, or difference, is to be considered as the cost of the local bridge railway."

The Kings County Company is neither to have a profit nor bear any of the losses of the local bridge railway.

Commissioner Shea will continue to have general control of the bridge, but he will have to vote in determining whether the service is inadequate or otherwise. So long as the companies do not put sufficient weight on the structure at one time to break it down he must keep his hands off.

The arrangements for the Kings County Bridge service will be completed in about a week. For a time, at least, the road will be a poorer at about \$39,000 a year. It is carrying now about 14,000,000 passengers annually. Allowing a saving of 24 cents each way across the bridge, the patrons of the company will be benefited to the extent of \$393,000.

MUSICIAN O'MARA FACES A JURY.

He Is Placed on Trial on the Charge of Murdering Ten-Year-Old Japhet Connelly Last June.

William O'Mara, the wandering musician, of Yonkers, was placed on trial in May's Landing, N. J., yesterday, charged with the murder of ten-year-old Japhet Connelly at Somers Point last June.

Nearly two hours was consumed in impugning the jury. Louis Collins testified that he saw O'Mara on the night of June 6, and arrested O'Mara on suspicion of murder. On the following day he stumbled over the body, which was covered with leaves. The boy had been strangled.

Miss Deborah Kendall testified that she saw O'Mara and the lad passing her house. She watched them as far as New Jersey avenue, a short distance from where the body was found.

MARVELLOUS HEALING

Last Week of the Great Healing Demonstrations.

OVER 7,000 ALREADY CURED.

WITHOUT MONEY OR PRICE.

The Whole World Mystified by These Wonderful Cures.

AT SCOTTISH RITE HALL DAILY.

Another Special Illustrated Lecture for Ladies, Friday at 2:30.

The most confirmed cripples are cured by this marvellous power. He gives an exhibition that baffles description. The most marvellous cures ever recorded are performed at every clinic. The public are invited to bring the worst cases that can be found.

The sick, lame, deaf and paralyzed will be treated on the open stage in full view of the audience daily at 2:30, except Saturdays. Admission free to all. Organ recital every day at 2. Don't forget ladies' lecture Friday.

Special Notices.

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For Infants and Children.

The Kind You Have Always Bought

Bears the Signature of J. C. Watson

WATERBURY'S SOOTHING SYRUP FOR CHILDREN. Teething, colic, diarrhea, indigestion, allays pain, cures and cures. 25c a bottle. PREPARED BY W. WATERBURY, ROXBURY, MASS.

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BUFFALO LITHIA WATER

A Solvent of Stone in the Bladder. Its value in Uric Acid Diathesis, Gout, Rheumatism, Bright's Disease, &c.

ANALYSIS AND REPORT OF

Dr. A. GABRIEL POUCHET

Professor of Pharmacology and Materia Medica of the Faculty of Medicine of Paris. Director of the Laboratory of the Consulting Committee of Public Hygiene of France.

PARIS, February 12, 1897. The collection of disintegrated or broken-down vesical or renal calculi, which form the subject of the following analysis and researches, were sent me by

Dr. Edward

Chambers Laird,

resident physician, Buffalo Lithia Springs, Virginia, U.S.A.

They were discharged by different patients after the use of the mineral water of Buffalo Lithia Spring No. 2 for a variable time.

I advise here from the experience of Doctor Laird the use of this mineral water, which has had with him a happy influence on the disintegration of the calculi and their elimination. It is to demonstrate this that he has requested me to make this analysis.

The collections of the disintegrated calculi submitted to my examination were eight in number. A fragment of each collection has been reproduced by photographs, which are designated by the same letters of the alphabet as the analysis here following:

(Specimen of Calculus "A" magnified 13 diameters.)

These disintegrated renal calculi are very numerous, and present themselves in the form of grains of various sizes (from that of the size of a pin to that of a pea) of reddish-yellow color, very hard and nucleus in the center. They are thus composed: Urates of ammonia—for the greater part; free uric acid—small quantity; carbonate of ammonia and magnesium—small quantity.

(Calculus "B" magnified 10 diameters.)

This disintegrated vesical calculus presents itself in the form of many fragments, of a granular aspect, of a grayish-white color. They are easily broken; and the texture of the fragments shows that they are porous throughout. Chemical composition: Urates of ammonia—for the greater part; carbonate of ammonia and magnesium—in small quantity.

(Calculus "C" magnified 10 diameters.)

Vesical calculus reduced to crystalline powder, granular, of a grayish-white color, rather friable. Chemical composition: Phosphate of ammonia and magnesium—for the greater part; carbonate of lime—small quantity; oxalate of lime—very small quantity.

(Calculus "D" magnified 7 diameters.)

Vesical calculus thoroughly disintegrated, fragments many and angular, granular aspect, of a rather friable consistency, of a grayish-white color. Chemical composition: Bile salts—for the greater part (soluble directly in the biopipette); oxalate of lime—small quantity; carbonate of ammonia and magnesium—small quantity; xanthine—very small quantity.

(Calculus "E" magnified 14 diameters.)

Disintegrated renal calculi, many polyhedral fragments rounded at the angles, consistency hard, color yellowish-red. These calculi are hard and appear formed of concentric layers. Chemical composition: Uric acid—nearly the whole part; uric pigment—acid rosaceous. (Signed) A. GABRIEL POUCHET.

A portion of report omitted.

THE CARBONATE OF LITHIA BUFFALO LITHIA WATER

not equal to Dr. WILLIAM A. HAMMOND, Washington, D. C.,

Surgeon-General U. S. Army (retired), formerly Professor of Diseases of the Mind and Nervous System in the University of New York, etc., referring to many cases of diseases of the Nervous System in which an excess of Uric Acid in the blood is often observed; also to Gout, Rheumatism, Calculi, and other Diseases of Uric Acid Diathesis, says:

"I have tried carbonate of lithia dissolved in water in various proportions, but it certainly does not, in cases to which I refer, have the same effect as BUFFALO LITHIA WATER, and as a matter of prime importance it is not to be forgotten that the composition of the BUFFALO LITHIA WATER is such, and the experience of its use so complete, that no doubt exists of its great power, not only as a solvent for calculi already in the bladder, but of the diseases of such calculi existing in the blood. I have had considerable experience with this Water in the treatment of Bright's Disease. I have witnessed the Albuminuria of this affection, and also casts of the renal vessels, disappear on the use of the Water, and this not only in a single case, but in several of which I have full notes."

BUFFALO LITHIA WATER

is an undoubted positive remedy for many of the most serious and most common ills that afflict mankind. It deserves the investigation of all who are in poor health. An illustrated book can be procured on request, containing the testimony of the most famous physicians of this country and Europe (men whose very names will impress you), as to the wonderful power of BUFFALO LITHIA WATER in Gout, Rheumatism, Bright's Disease, Gravel, Indigestion, Nervous Dyspepsia, Nervous Exhaustion, Malaria, Alcoholism, Eczema and Blood Disorders, Diseases of Women, etc. The list is long, but the testimony is stronger. If your health is not satisfactory, send for the book and judge for yourself.

BUFFALO LITHIA WATER is for sale by Druggists and Grocers generally.

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\$15 Ladies' Watch, \$8

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